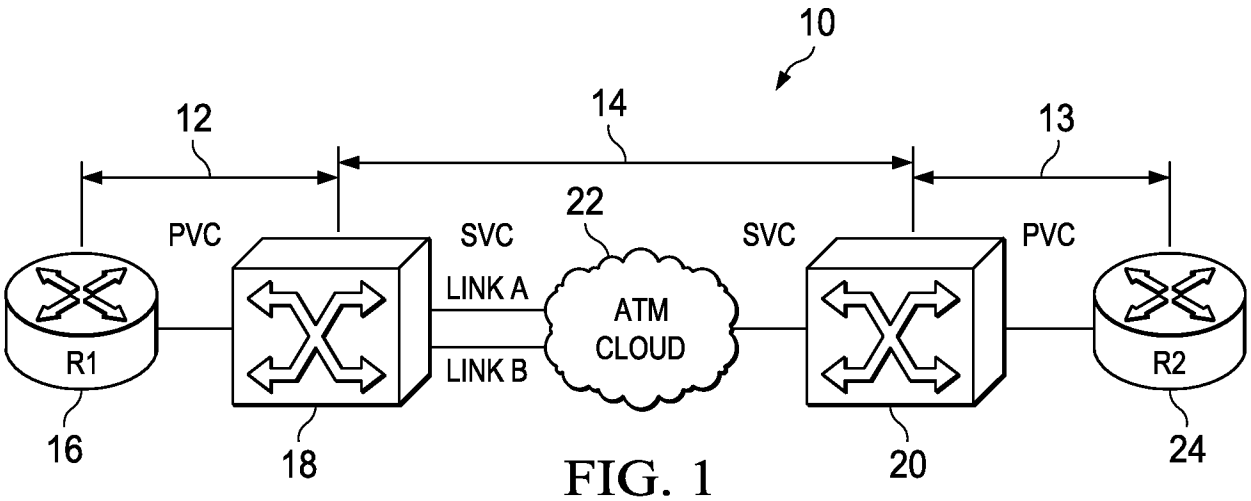
10
12
14
13
22
PVC
SVC
SVC
PVC
LINK A
LINK B
ATM
CLOUD
R1
R2
16
18
20
24

FIG. 1

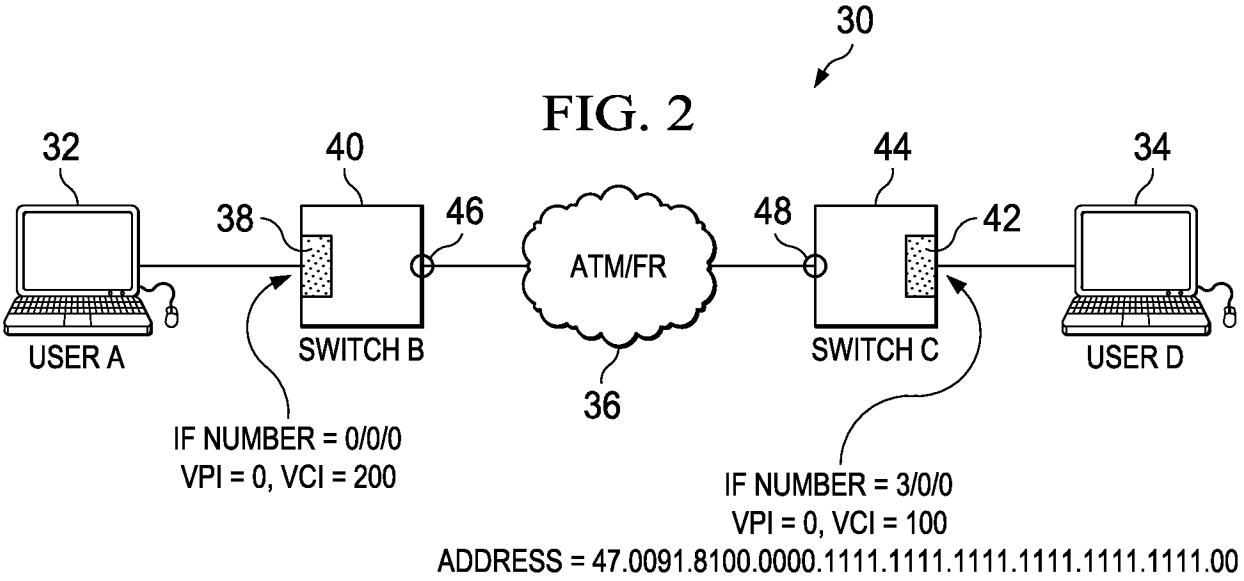
30
32
40
44
34
38
46
48
42
ATM/FR
USER A
SWITCH B
SWITCH C
USER D
36
IF NUMBER = 0/0/0
VPI = 0, VCI = 200
IF NUMBER = 3/0/0
VPI = 0, VCI = 100
ADDRESS = 47.0091.8100.0000.1111.1111.1111.1111.1111.1111.00

FIG. 2

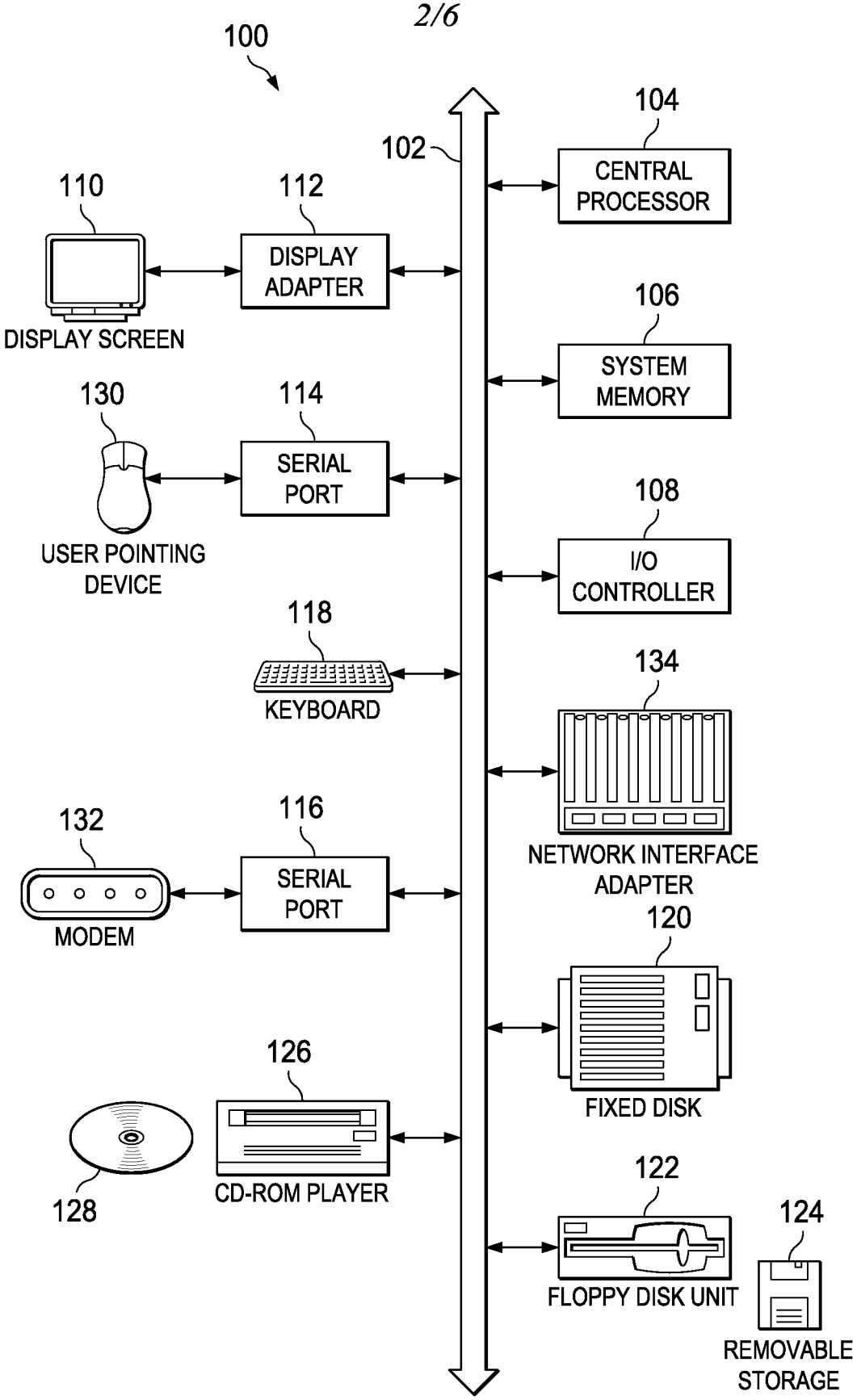
100
102
104
CENTRAL PROCESSOR
110
112
DISPLAY ADAPTER
DISPLAY SCREEN
106
SYSTEM MEMORY
130
114
SERIAL PORT
USER POINTING DEVICE
108
I/O CONTROLLER
118
KEYBOARD
134
NETWORK INTERFACE ADAPTER
132
116
SERIAL PORT
MODEM
120
FIXED DISK
126
CD-ROM PLAYER
128
122
124
FLOPPY DISK UNIT
REMOVABLE STORAGE

FIG. 3

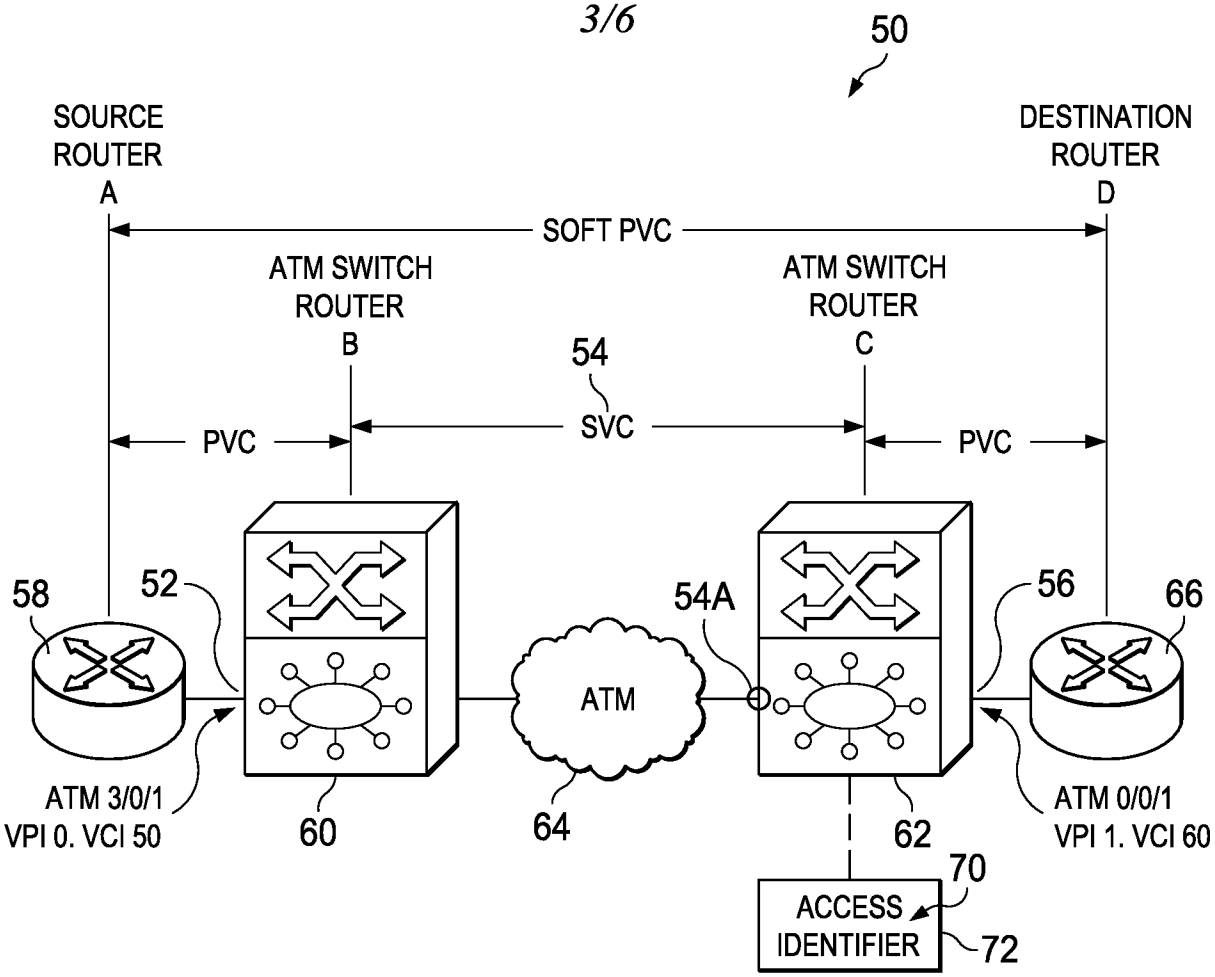
50
SOURCE ROUTER A
DESTINATION ROUTER D
SOFT PVC
ATM SWITCH ROUTER B
ATM SWITCH ROUTER C
54
SVC
PVC
PVC
58
52
54A
56
66
ATM
ATM 3/0/1 VPI 0. VCI 50
60
64
62
ATM 0/0/1 VPI 1. VCI 60
70
ACCESS IDENTIFIER
72

FIG. 4

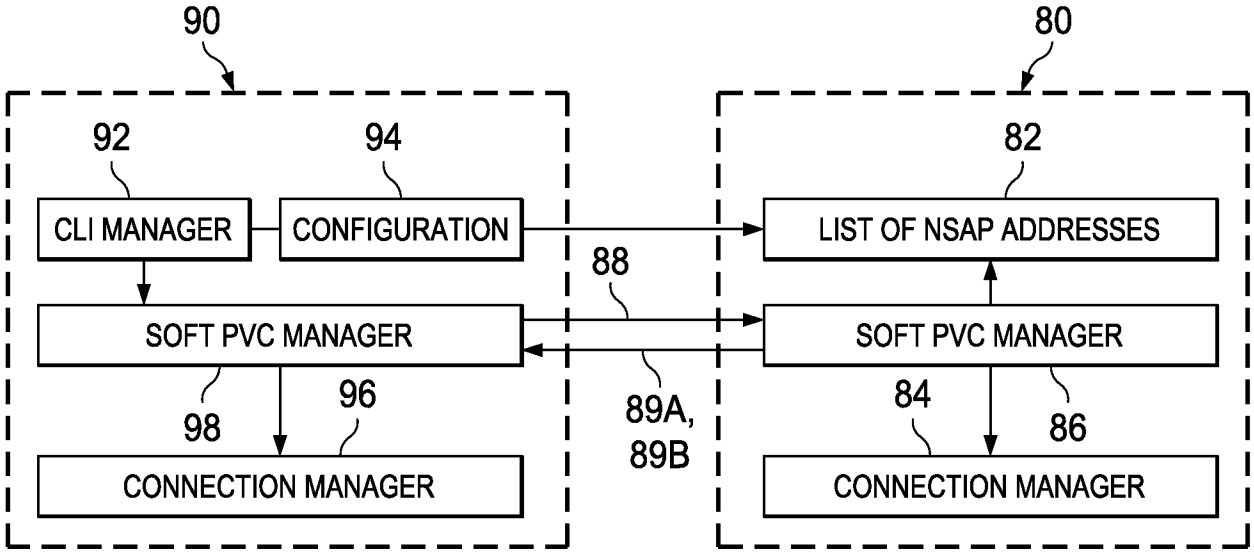
90
80
92
94
82
CLI MANAGER
CONFIGURATION
LIST OF NSAP ADDRESSES
88
SOFT PVC MANAGER
SOFT PVC MANAGER
98
96
89A, 89B
84
86
CONNECTION MANAGER
CONNECTION MANAGER

FIG. 5

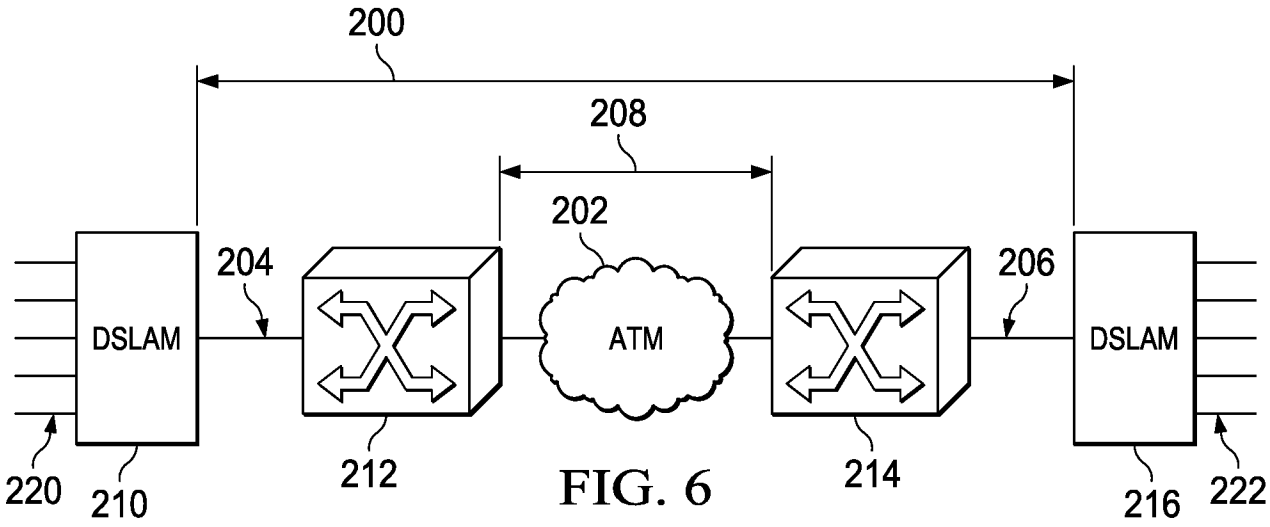
200
208
202
204
206
DSLAM
ATM
DSLAM
220
210
212
214
216
222

FIG. 6

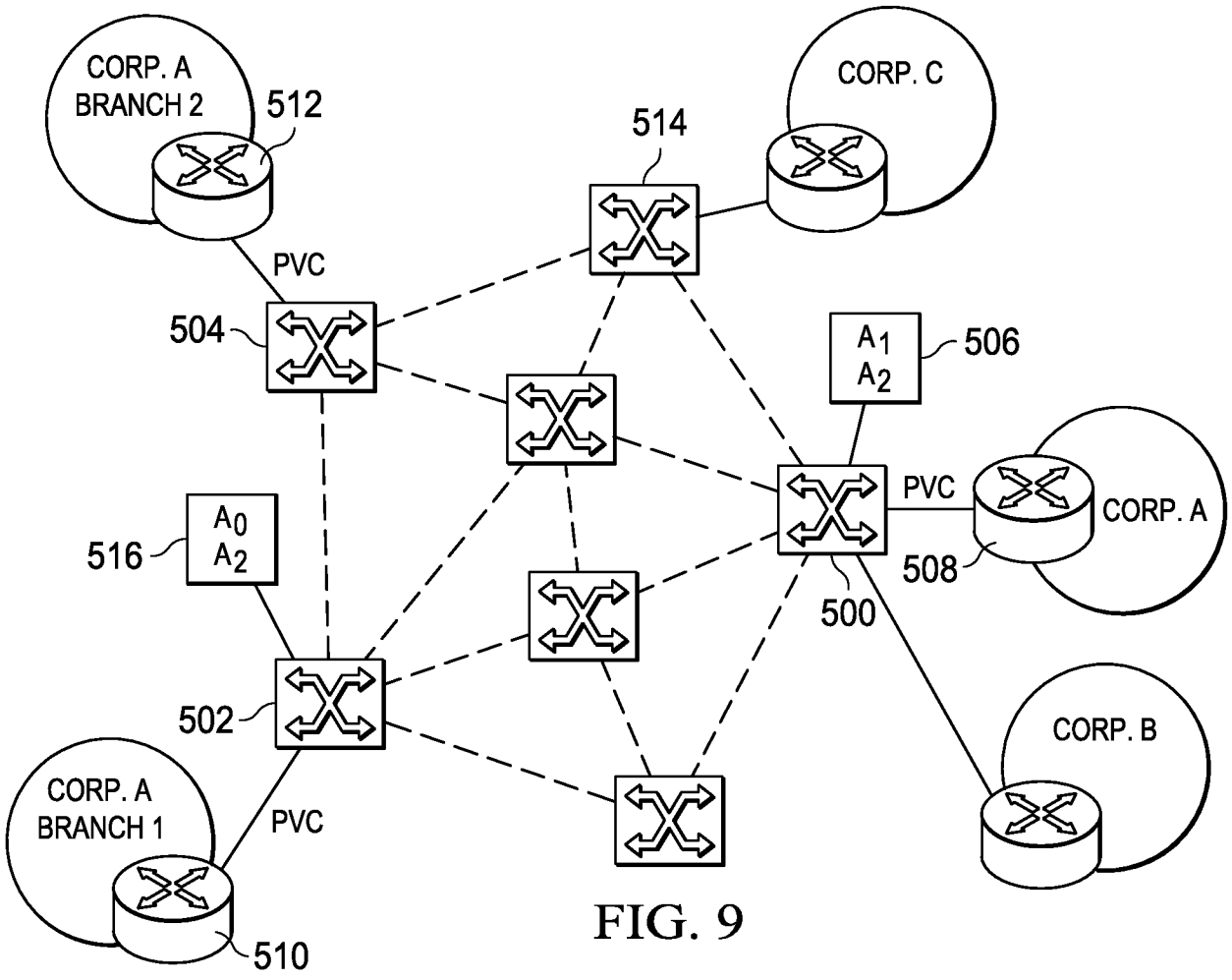
CORP. A
BRANCH 2
512
514
CORP. C
PVC
504
A1
A2
506
A0
A2
516
PVC
CORP. A
508
500
502
CORP. B
CORP. A
BRANCH 1
PVC
510

FIG. 9

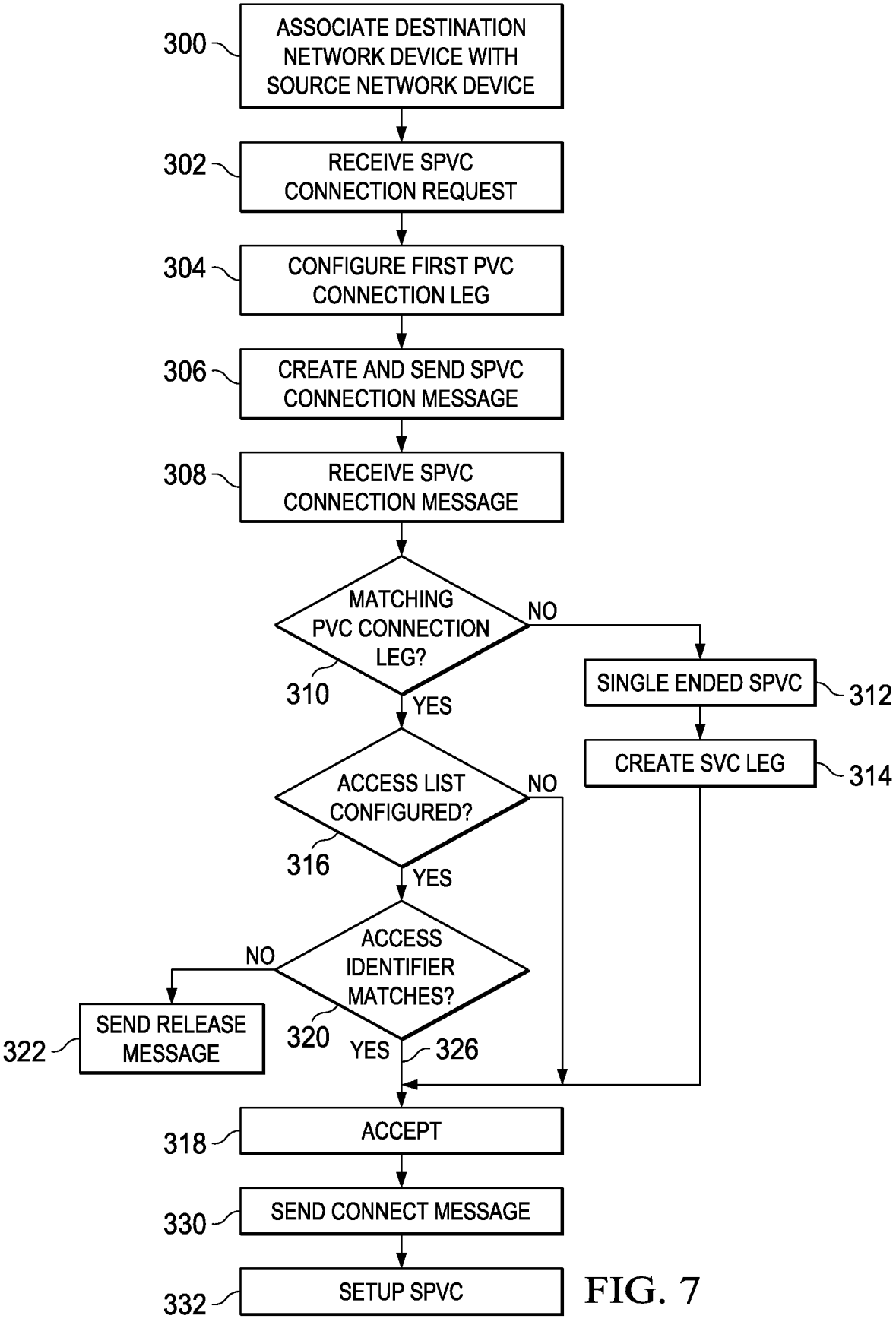
300
ASSOCIATE DESTINATION NETWORK DEVICE WITH SOURCE NETWORK DEVICE
302
RECEIVE SPVC CONNECTION REQUEST
304
CONFIGURE FIRST PVC CONNECTION LEG
306
CREATE AND SEND SPVC CONNECTION MESSAGE
308
RECEIVE SPVC CONNECTION MESSAGE
MATCHING PVC CONNECTION LEG?
310
NO
YES
SINGLE ENDED SPVC
312
CREATE SVC LEG
314
ACCESS LIST CONFIGURED?
316
NO
YES
ACCESS IDENTIFIER MATCHES?
320
NO
YES
326
SEND RELEASE MESSAGE
322
318
ACCEPT
330
SEND CONNECT MESSAGE
332
SETUP SPVC

FIG. 7

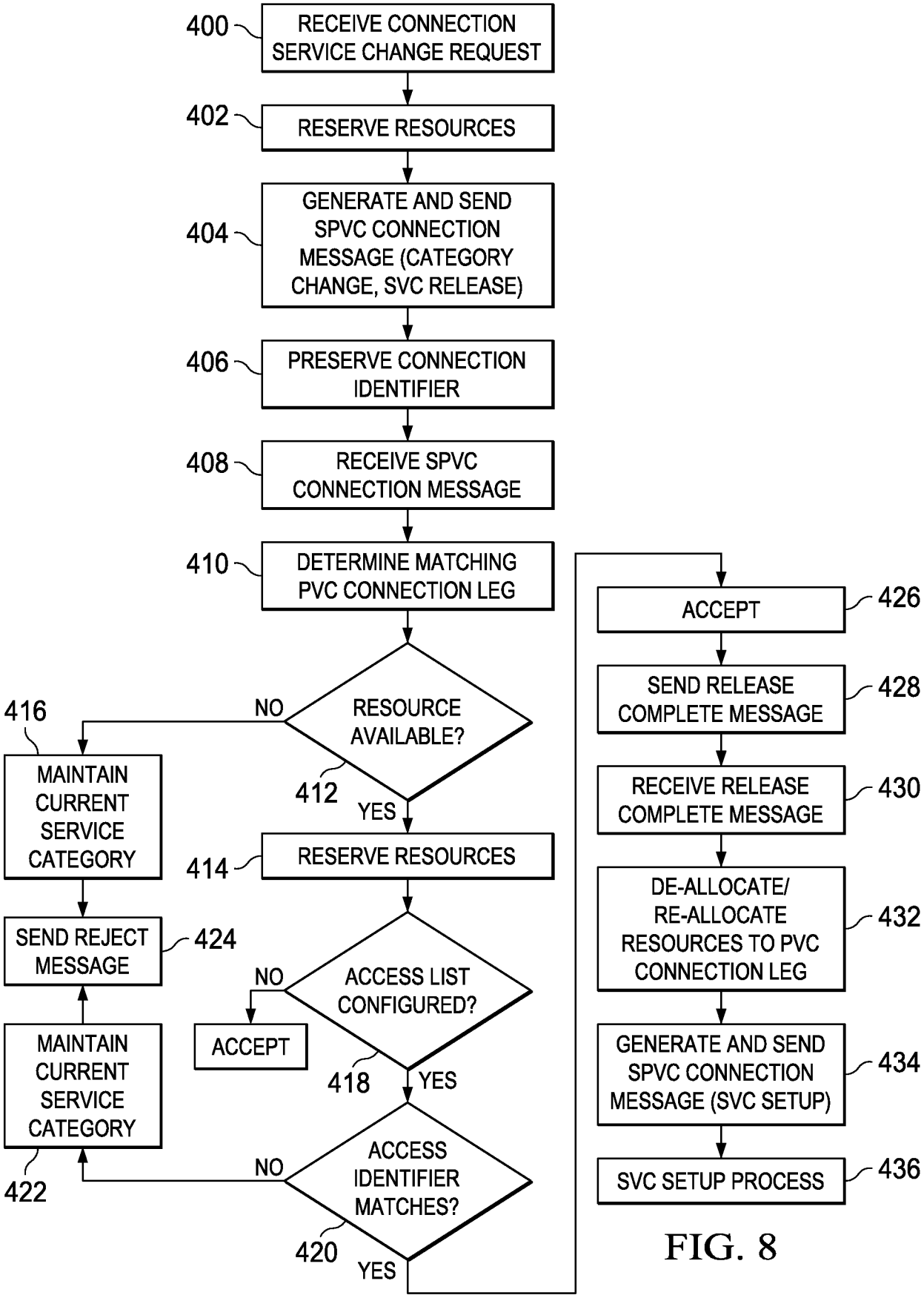
400
RECEIVE CONNECTION SERVICE CHANGE REQUEST
402
RESERVE RESOURCES
404
GENERATE AND SEND SPVC CONNECTION MESSAGE (CATEGORY CHANGE, SVC RELEASE)
406
PRESERVE CONNECTION IDENTIFIER
408
RECEIVE SPVC CONNECTION MESSAGE
410
DETERMINE MATCHING PVC CONNECTION LEG
RESOURCE AVAILABLE?
412
NO
YES
416
MAINTAIN CURRENT SERVICE CATEGORY
SEND REJECT MESSAGE
424
414
RESERVE RESOURCES
ACCESS LIST CONFIGURED?
NO
YES
ACCEPT
418
MAINTAIN CURRENT SERVICE CATEGORY
422
ACCESS IDENTIFIER MATCHES?
NO
YES
420
ACCEPT
426
SEND RELEASE COMPLETE MESSAGE
428
RECEIVE RELEASE COMPLETE MESSAGE
430
DE-ALLOCATE/ RE-ALLOCATE RESOURCES TO PVC CONNECTION LEG
432
GENERATE AND SEND SPVC CONNECTION MESSAGE (SVC SETUP)
434
SVC SETUP PROCESS
436

FIG. 8